

ABSTRACT OF THE DISCLOSURE

A receiver for transmission and parallel interference suppression is envisioned. The receiver has multiple access interference suppression stages having K channels, each comprising a correlation-means device corresponding to a particular pseudorandom sequence and interference generation and suppression means device. Each stage delivers to the following stage signals at least partly freed from multiple access interferences. A decision stage receives the signals from the channels of the preceding suppression stage. Each decision stage has a correlation-means device corresponding to one of the pseudorandom sequences and decision means device to deliver data. A means Devices for producing synchronization signals can control the interference suppression and the decision means device. The means devices producing the synchronization signals have means components placed in the channels of the final stage. Further, the synchronization signals produced by the means controlling these devices control the decision means device of the channels of the final stage and the interference estimation means device of the at least one interference suppression stages following appropriate time shifts.